

Amendments to the Claims

1. (Currently amended) A method comprising:
decoding a digital data stream received at a video decoder into data including decompressed video data;
passing a decoded data stream to an encoder;
dynamically adjusting an aggressiveness of down sampling of the data stream prior to passing the data stream; and
encoding the decoded data stream at a bit rate below a bit rate of the digital data stream to form a lower bit rate data stream.
2. (Cancelled)
3. (Original) The method of Claim 1 further comprising:
storing data corresponding to the lower bit rate data stream in a non-volatile storage medium.
4. (Original) The method of Claim 1 further comprising:
encrypting the lower bit rate data stream; and
busing the encrypted lower bit rate data stream to a distribution interface.
5. (Original) The method of Claim 1 comprising:

sending the digital data stream to a display device if the display device is local to the video decoder; and

sending the lower bit rate data stream to a display if the display device is remote from the video decoder.

6. (Original) The method of Claim 1 further comprising:

wirelessly transmitting the lower bit rate data stream to a display device.

7. (Original) The method of Claim 1 wherein the encoding comprises:

compressing the decoded data stream.

8. (Currently amended) An apparatus comprising:

a video decoder having an output to output a decoded data stream including decompressed video data, and having a digital input interface;

an encoder coupled to the video decoder to encode a decoded data stream received from the video decoder;

down sampling logic to dynamically adjust the aggressiveness of down sampling of the data stream and

a non-volatile storage unit coupled to the video decoder.

9. (Cancelled)

10. (Previously Presented) The apparatus of Claim 8 wherein the video decoder comprises:

an encryption engine; and
a decryption engine.

11. (Previously Presented) The apparatus of Claim 8 wherein the encoder comprises:

a compression engine.

12. (Previously Presented) The apparatus of Claim 11 wherein the compression engine performs motion picture experts group (MPEG) encoding.

13. (Original) The apparatus of Claim 8 further comprising:
a local area network interface.

14. (Original) The apparatus of Claim 8 further comprising:
a wireless network interface.

15. (Original) The apparatus of Claim 8 further comprising:
a host processor coupled to the video decoder.

16. (Currently amended) A system comprising:

a video decoder including an output to output a decoded data stream having decompressed video data, and including a down sampler wherein the aggressiveness of down sampling is dynamically adjusted;

an encoder coupled to the video decoder to encode a video stream at a bit rate below a bit rate of a source stream;

a wireless interface operably coupled to the video decoder to transmit the video stream at the bit rate below the bit rate of the source stream; and

a display to receive and display the video stream.

17. (Original) The system of Claim 16 further comprising:

a non-volatile storage unit coupled to the video decoder.

18. (Original) The system of Claim 16 further comprising:

a local interface operably coupled to the video decoder to transmit the source stream at a full bit rate; and

a display coupled to the local interface.

19. (Currently amended) An apparatus comprising:

means for decoding an incoming video stream into a decoded video stream including decoded video data;

means for down sampling the decoded video stream wherein the aggressiveness of down sampling is dynamically adjusted; and

means for encoding the decoded video stream into a lower bit rate video stream.

20. (Cancelled)

21. (Original) The apparatus of Claim 19 further comprising:
means for storing the lower bit rate video stream.

22. (Original) The apparatus of Claim 19 further comprising:
means of selecting the lower bit rate based on a transmission medium to be used.

23. (Currently amended) A computer readable storage media containing executable computer program instructions which when executed cause a digital processing system to perform a method comprising:

decoding a digital data stream received at a video decoder into data including decompressed video data;

dynamically adjusting the aggressiveness of down sampling of decoded data stream; -and

encoding the decoded data stream at a bit rate below a bit rate of the digital data stream to form a lower bit rate data stream.

24. (Original) The computer readable storage media of Claim 23 which when executed cause a digital processing system to perform a method further comprising:
down sampling the data stream prior to passing the decoded data stream.

25. (Original) The computer readable storage media of Claim 23 which when executed cause a digital processing system to perform a method further comprising:
storing data corresponding to the lower bit rate data stream in a non-volatile storage medium.

26. (Original) The computer readable storage media of Claim 23 which when executed cause a digital processing system to perform a method further comprising:
encrypting the lower bit rate data stream; and
busing the encrypted lower bit rate data stream to a distribution interface.

27. (Original) The computer readable storage media of Claim 23 which when executed cause a digital processing system to perform a method further comprising:
sending the digital data stream to a display device if the display device is local to the video decoder; and
sending the lower bit rate data stream to a display if the display device is remote from the video decoder.

28. (Original) The computer readable storage media of Claim 23 which when executed cause a digital processing system to perform a method further comprising:
wirelessly transmitting the lower bit rate data stream to a display device.

29. (Original) The computer readable storage media of Claim 23 which when executed cause a digital processing system to perform a method further comprising:

compressing the decoded data stream.

30 (Currently amended) The method of claim 1 wherein the dynamic adjustment of down sampling is accomplished including by a look up table.

31. (New) The method of claim 30 wherein look-up is based at least on constraints imposed by expected transport media, storage resources, or target display.

32. (New) The method of claim 1 wherein down sampling is based at least on constraints imposed by storage resources.

33. (New) The method of claim 32 wherein the down sampling comprises down sampling based at least on a desired bit rate to allow longer recording times by reducing the non-volatile storage required for each unit of time of the down sampled data stream.

34. (New) The method of claim 33 wherein encoding comprises further compressing the down sampled data stream to the desired bit rate, the desired bit rate being based at least on allowing longer recording times.